

Patent Abstracts of Japan

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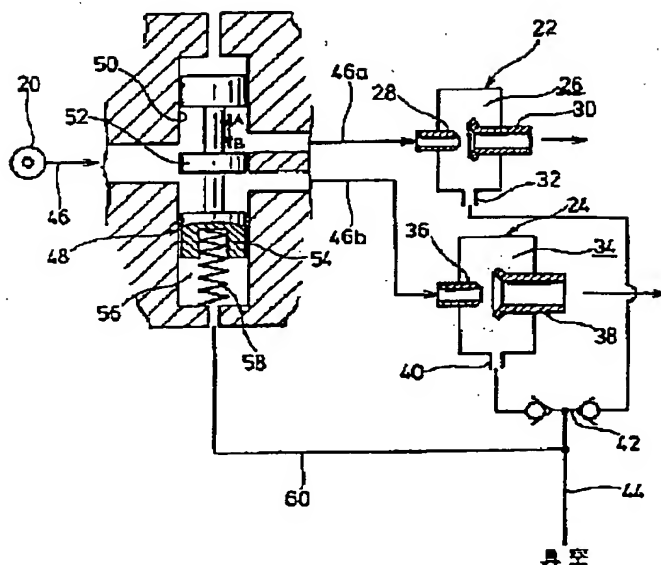
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APPLICANT : SMC CORP;

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TITLE : VACUUM GENERATING DEVICE



ABSTRACT : PURPOSE: To secure a wide range of vacuum characteristics by a single vacuum generating device without increasing consumption of pressurizing fluid by connecting ejector units to a pressurizing fluid supply source by a fluid circuit, and supplying the pressurizing fluid to the ejector units under flow rate control.

CONSTITUTION: Compressed air is supplied respectively to plural ejector units 22 and 24 through a pipe conduit 46 from a compressed air supply source 20. At this time, in a flow rate control valve 48 reactive to vacuum pressure in a vacuum taking-out pipe 44, this valve body 52 moves in an A direction by elastic repulsive force of a valve spring 58, and cuts off a pipe conduit 46a connected to one ejector unit 22. As a result, the compressed air is supplied only to the other ejector unit 24 through the other pipe conduit 46b in an opening condition. Afterwards, when vacuum pressure is increased, the valve body 52 moves in a B direction, and closes the other pipe conduit 46b fully in the end, and opens one pipe conduit 46a fully. As a result, the compressed air is supplied only to one ejector unit 22.

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